

CRF Errors Corrected by the STIC Systems Branch

01PE 2115

2/28/2002

Serial Number: 10/057,408

CRF Processing Date: 2/28/2002

Edited by: [Signature]

Verified by: [Signature] (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



OIPE

## RAW SEQUENCE LISTING

DATE: 02/28/2002

PATENT APPLICATION: US/10/057,408

TIME: 19:02:29

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02282002\J057408.raw

17

4 <110> APPLICANT: Sera, Takashi  
 6 <120> TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof  
 8 <130> FILE REFERENCE: 109845.135  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/057,408  
 C--> 11 <141> CURRENT FILING DATE: 2002-01-23  
 13 <150> PRIOR APPLICATION NUMBER: US 60/220,060  
 14 <151> PRIOR FILING DATE: 2000-07-21  
 16 <160> NUMBER OF SEQ ID NOS: 69  
 18 <170> SOFTWARE: PatentIn version 3.0  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 32  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Artificial Sequence  
 25 <220> FEATURE:  
 26 <223> OTHER INFORMATION: Zinc finger domain  
 28 <220> FEATURE:  
 29 <221> NAME/KEY: MISC\_FEATURE  
 30 <222> LOCATION: (1)..(32)  
 31 <223> OTHER INFORMATION: Amino acids 1-3, 10-21 and 29-32 are Xaa wherein Xaa = any  
 32 amino acid.  
 34 <220> FEATURE:  
 35 <221> NAME/KEY: VARIANT  
 36 <222> LOCATION: (5)..(8)  
 37 <223> OTHER INFORMATION: Amino acids 5-8 are Xaa wherein Xaa = any amino acid, and up  
 38 to two can be missing.  
 40 <220> FEATURE:  
 41 <221> NAME/KEY: VARIANT  
 42 <222> LOCATION: (23)..(27)  
 43 <223> OTHER INFORMATION: Amino acids 23-27 are Xaa wherein Xaa = any amino acid, and  
 up  
 44 to two can be missing.  
 46 <400> SEQUENCE: 1  
 W--> 48 Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 49 1 5 10 15  
 W--> 52 Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa  
 53 20 25 30  
 56 <210> SEQ ID NO: 2  
 58 <211> LENGTH: 32  
 59 <212> TYPE: PRT  
 60 <213> ORGANISM: Artificial Sequence  
 62 <220> FEATURE:  
 63 <223> OTHER INFORMATION: Zinc finger domain  
 65 <220> FEATURE:  
 66 <221> NAME/KEY: MISC\_FEATURE

## RAW SEQUENCE LISTING

DATE: 02/28/2002

PATENT APPLICATION: US/10/057,408

TIME: 19:02:29

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02282002\J057408.raw

```

67 <222> LOCATION: (1)..(32)
68 <223> OTHER INFORMATION: Amino acids 1-3, 10-14, 16, 19, 20 and 29-32 are Xaa wherein
Xaa = any
69     amino acid.
71 <220> FEATURE:
72 <221> NAME/KEY: VARIANT
73 <222> LOCATION: (5)..(8)
74 <223> OTHER INFORMATION: Amino acids 5-8 are Xaa wherein Xaa = any amino acid, and up
75     to two can be missing.
77 <220> FEATURE:
78 <221> NAME/KEY: VARIANT
79 <222> LOCATION: (23)..(27)
80 <223> OTHER INFORMATION: Amino acids 23-27 are Xaa wherein Xaa = any amino acid, and
up
81     to two can be missing.
83 <220> FEATURE:
84 <221> NAME/KEY: VARIANT
85 <222> LOCATION: (15)..(15)
86 <223> OTHER INFORMATION: Amino acid 15 is Xaa wherein Xaa = Z-1 wherein Z-1 = Arg or
Lys,
87     Gln or Asn, Thr, Met, Leu or Ile, or Glu or Asp.
89 <220> FEATURE:
90 <221> NAME/KEY: VARIANT
91 <222> LOCATION: (17)..(17)
92 <223> OTHER INFORMATION: Amino acid 17 is Xaa wherein Xaa = Z2 wherein Z2 = Ser or
Arg,
93     Asn, Gln, Thr, Val or Ala, or Asp or Glu.
95 <220> FEATURE:
96 <221> NAME/KEY: VARIANT
97 <222> LOCATION: (18)..(18)
98 <223> OTHER INFORMATION: Amino acid 18 is Xaa wherein Xaa = Z3 wherein Z3 = His or
Lys,
99     Asn or Gln, Ser, Ala or Met, or Asp or Glu.
101 <220> FEATURE:
102 <221> NAME/KEY: VARIANT
103 <222> LOCATION: (21)..(21)
104 <223> OTHER INFORMATION: Amino acid 21 is Xaa wherein Xaa = Z6 wherein Z6 = Arg or
Lys,
105     Gln or Asn, Thr, Tyr, Leu, Ile or Met, or Glu or Asp.
107 <400> SEQUENCE: 2
W--> 109 Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa
110 1      5      10      15
W--> 113 Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa
114      20      25      30
117 <210> SEQ ID NO: 3
118 <211> LENGTH: 196
119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Zinc finger protein
125 <400> SEQUENCE: 3
127 Val Pro Ile Pro Gly Lys Lys Lys Gln His Ile Cys His Ile Gln Gly
128 1      5      10      15

```

130 Cys Gly Lys Val Tyr Gly Gln Ser Ser Asp Leu Gln Arg His Leu Arg  
131                   20                   25                   30

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/057,408

DATE: 02/28/2002

TIME: 19:02:29

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02282002\J057408.raw

```

133 Trp His Thr Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly
134      35      40      45
136 Lys Arg Phe Thr Arg Ser Ser Asn Leu Gln Arg His Lys Arg Thr His
137      50      55      60
139 Thr Gly Glu Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met
140 65      70      75      80
142 Arg Ser Asp Glu Leu Ser Arg His Ile Lys Thr His Gln Asn Lys Lys
143      85      90      95
145 Asp Gly Gly Gly Ser Gly Lys Lys Lys Gln His Ile Cys His Ile Gln
146      100      105      110
148 Gly Cys Gly Lys Val Tyr Gly Thr Ser Asn Leu Arg Arg His Leu
149      115      120      125
151 Arg Trp His Thr Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys
152      130      135      140
154 Gly Lys Arg Phe Thr Arg Ser Ser Asn Leu Gln Arg His Lys Arg Thr
155 145      150      155      160
157 His Thr Gly Glu Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe
158      165      170      175
160 Met Arg Ser Asp His Leu Ser Arg His Ile Lys Thr His Gln Asn Lys
161      180      185      190
163 Lys Gly Gly Ser
164      195

```

167 &lt;210&gt; SEQ ID NO: 4

168 &lt;211&gt; LENGTH: 99

169 &lt;212&gt; TYPE: PRT

170 &lt;213&gt; ORGANISM: Artificial Sequence

172 &lt;220&gt; FEATURE:

174 &lt;223&gt; OTHER INFORMATION: Zinc finger protein

176 &lt;400&gt; SEQUENCE: 4

```

178 Val Pro Ile Pro Gly Lys Lys Lys Gln His Ile Cys His Ile Gln Gly
179 1      5      10      15
181 Cys Gly Lys Val Tyr Gly Thr Thr Ser Asn Leu Arg Arg His Leu Arg
182      20      25      30
184 Trp His Thr Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly
186      35      40      45
188 Lys Arg Phe Thr Arg Ser Ser Asn Leu Gln Arg His Lys Arg Thr His
189      50      55      60
191 Thr Gly Glu Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met
192 65      70      75      80
194 Arg Ser Asp His Leu Ser Arg His Ile Lys Thr His Gln Asn Lys Lys
195      85      90      95
197 Gly Gly Ser

```

201 &lt;210&gt; SEQ ID NO: 5

202 &lt;211&gt; LENGTH: 99

203 &lt;212&gt; TYPE: PRT

204 &lt;213&gt; ORGANISM: Artificial Sequence

206 &lt;220&gt; FEATURE:

207 &lt;223&gt; OTHER INFORMATION: Zinc finger protein

209 &lt;400&gt; SEQUENCE: 5

## RAW SEQUENCE LISTING

DATE: 02/28/2002

PATENT APPLICATION: US/10/057,408

TIME: 19:02:29

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02282002\J057408.raw

```

211 Met Glu Lys Leu Arg Asn Gly Ser Gly Asp Pro Gly Lys Lys Lys Gln
212 1          5          10          15
214 His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu
215          20          25          30
217 Gln Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
218          35          40          45
220 Glu Cys Gly Lys Ser Phe Ser Arg Ser Ser His Leu Gln Gln His Gln
221          50          55          60
223 Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
224 65          70          75          80
226 Ser Phe Ser Arg Ser Asp His Leu Ser Arg His Gln Arg Thr His Gln
227          85          90          95
229 Asn Lys Lys
233 <210> SEQ ID NO: 6
234 <211> LENGTH: 99
235 <212> TYPE: PRT
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Zinc finger protein
241 <400> SEQUENCE: 6
244 Met Glu Lys Leu Arg Asn Gly Ser Gly Asp Pro Gly Lys Lys Lys Gln
245 1          5          10          15
247 His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu
248          20          25          30
250 Gln Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
251          35          40          45
253 Glu Cys Gly Lys Ser Phe Ser Glu Ser Ser Asp Leu Gln Arg His Gln
254          50          55          60
256 Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
257 65          70          75          80
259 Ser Phe Ser Arg Ser Asp His Leu Ser Arg His Gln Arg Thr His Gln
260          85          90          95
262 Asn Lys Lys
266 <210> SEQ ID NO: 7
267 <211> LENGTH: 99
268 <212> TYPE: PRT
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: Zinc finger protein
274 <400> SEQUENCE: 7
276 Met Glu Lys Leu Arg Asn Gly Ser Gly Asp Pro Gly Lys Lys Lys Gln
277 1          5          10          15
279 His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu
280          20          25          30
282 Gln Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
283          35          40          45
285 Glu Cys Gly Lys Ser Phe Ser Arg Ser Ser His Leu Gln Glu His Gln
286          50          55          60
288 Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys

```

## RAW SEQUENCE LISTING

DATE: 02/28/2002

PATENT APPLICATION: US/10/057,408

TIME: 19:02:29

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02282002\J057408.raw

```

290 65                      70                      75                      80
292 Ser Phe Ser Arg Ser Asp His Leu Ser Arg His Gln Arg Thr His Gln
293                      85                      90                      95
295 Asn Lys Lys
299 <210> SEQ ID NO: 8
300 <211> LENGTH: 99
301 <212> TYPE: PRT
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Zinc finger protein
308 <400> SEQUENCE: 8
310 Met Glu Lys Leu Arg Asn Gly Ser Gly Asp Pro Gly Lys Lys Lys Gln
311 1                      5                      10                      15
313 His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu
314                      20                      25                      30
316 Gln Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
317                      35                      40                      45
319 Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu Gln Arg His Gln
320                      50                      55                      60
322 Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
323 65                      70                      75                      80
325 Ser Phe Ser Arg Ser Asp His Leu Ser Arg His Gln Arg Thr His Gln
326                      85                      90                      95
328 Asn Lys Lys
332 <210> SEQ ID NO: 9
333 <211> LENGTH: 99
334 <212> TYPE: PRT
335 <213> ORGANISM: Artificial Sequence
337 <220> FEATURE:
338 <223> OTHER INFORMATION: Zinc finger protein
340 <400> SEQUENCE: 9
342 Met Glu Lys Leu Arg Asn Gly Ser Gly Asp Pro Gly Lys Lys Lys Gln
343 1                      5                      10                      15
345 His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn Leu
346                      20                      25                      30
348 Gln Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro
349                      35                      40                      45
351 Glu Cys Gly Lys Ser Phe Ser Arg Ser Ser Asn Leu Gln Glu His Gln
352                      50                      55                      60
354 Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
355 65                      70                      75                      80
357 Ser Phe Ser Arg Ser Asp His Leu Ser Arg His Gln Arg Thr His Gln
358                      85                      90                      95
361 Asn Lys Lys
364 <210> SEQ ID NO: 10
365 <211> LENGTH: 99
366 <212> TYPE: PRT
367 <213> ORGANISM: Artificial Sequence
369 <220> FEATURE:

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/057,408

DATE: 02/28/2002  
TIME: 19:02:30

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\02282002\J057408.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,5,6,7,8,10,11,12,13,14,15,16,17,18,19,20,21,23,24,25

Seq#:1; Xaa Pos. 26,27,29,30,31,32

Seq#:2; Xaa Pos. 1,2,3,5,6,7,8,10,11,12,13,14,15,16,17,18,19,20,21,23,24,25

Seq#:2; Xaa Pos. 26,27,29,30,31,32

Seq#:13; Xaa Pos. 13,15,16,19

Seq#:30; Xaa Pos. 15

Seq#:31; N Pos. 7,8,9,10

Seq#:32; N Pos. 15,16,17

Seq#:33; N Pos. 15,16,17

Seq#:34; N Pos. 15,16,17

Seq#:35; N Pos. 15,16,17

Seq#:36; N Pos. 46,47,48,52,53,54,55,56,57

Seq#:37; N Pos. 37,38,39,46,47,48,49,50,51,55,56,57

Seq#:38; N Pos. 46,47,48,52,53,54,55,56,57

Seq#:39; N Pos. 37,38,39,46,47,48,49,50,51,55,56,57

Seq#:40; N Pos. 46,47,48,52,53,54,55,56

Seq#:41; N Pos. 28,29,30,37,38,39,40,41,42,46,47,48

Seq#:68; Xaa Pos. 13,15,16,19

Seq#:69; Xaa Pos. 13,15,16,19



## VERIFICATION SUMMARY

DATE: 02/28/2002

PATENT APPLICATION: US/10/057,408

TIME: 19:02:30

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02282002\J057408.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16  
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:16  
L:570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:16  
L:817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
L:886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0  
L:938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0  
L:955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0  
L:990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0  
L:1008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
L:1026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0  
L:1372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0  
L:1375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:16  
L:1413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:0  
L:1416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:16



OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/057,408

DATE: 02/15/2002

TIME: 14:48:41

Input Set : A:\109845-135.ST25.txt

Output Set: N:\CRF3\02152002\J057408.raw

**Does Not Comply**  
**Corrected Diskette Needed**

4 <110> APPLICANT: Sera, Takashi  
 6 <120> TITLE OF INVENTION: Zinc Finger Domain Recognition Code and Uses Thereof  
 8 <130> FILE REFERENCE: 109845.135  
 10 <140> CURRENT APPLICATION NUMBER: US/10/057,408  
 11 <141> CURRENT FILING DATE: 2002-01-23  
 13 <150> PRIOR APPLICATION NUMBER: US 60/220,060  
 14 <151> PRIOR FILING DATE: 2000-07-21  
 16 <160> NUMBER OF SEQ ID NOS: 69  
 18 <170> SOFTWARE: PatentIn version 3.0

## ERRORED SEQUENCES

1378 <210> SEQ ID NO: 69  
 1379 <211> LENGTH: 28  
 1380 <212> TYPE: PRT  
 1381 <213> ORGANISM: Artificial Sequence  
 1383 <220> FEATURE:  
 1384 <223> OTHER INFORMATION: Zinc finger domain  
 1386 <220> FEATURE:  
 1387 <221> NAME/KEY: VARIANT  
 1388 <222> LOCATION: (13)..(13)  
 1389 <223> OTHER INFORMATION: Amino acid 13 is "Xaa" wherein "Xaa" = Z1 wherein Z1 = Arg,  
 Gln,  
 1390 Thr, Met, or Glu  
 1392 <220> FEATURE:  
 1393 <221> NAME/KEY: VARIANT  
 1394 <222> LOCATION: (15)..(15)  
 1395 <223> OTHER INFORMATION: Amino acid 15 is "Xaa" wherein "Xaa" = Z2 wherein Z2 = Ser,  
 Asn,  
 1396 Thr, or Asp.  
 1398 <220> FEATURE:  
 1399 <221> NAME/KEY: VARIANT  
 1400 <222> LOCATION: (16)..(16)  
 1401 <223> OTHER INFORMATION: Amino acid 16 is "Xaa" wherein "Xaa" = Z3 wherein Z3 = His,  
 Asn,  
 1402 Ser, or Asp  
 1404 <220> FEATURE:  
 1405 <221> NAME/KEY: VARIANT  
 1406 <222> LOCATION: (19)..(19)  
 1407 <223> OTHER INFORMATION: Amino acid 19 is "Xaa" wherein "Xaa" = Z6 wherein Z6 = Arg,  
 Gln,  
 1408 Thr, Tyr, Leu, or Glu.  
 1410 <400> SEQUENCE: 69

W--> 1413 Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Xaa Ser Xaa Xaa  
1414 1 5 10 15  
W--> 1416 Leu Ser Xaa His Gln Arg Thr His Thr Gly Glu Lys

## RAW SEQUENCE LISTING

DATE: 02/15/2002

PATENT APPLICATION: US/10/057,408

TIME: 14:48:42

Input Set : A:\109845-135.ST25.txt

Output Set: N:\CRF3\02152002\J057408.raw

1417  
E--> 1425 - 96 -

20

25

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/057,408

DATE: 02/15/2002

TIME: 14:48:43

Input Set : A:\109845-135.ST25.txt

Output Set: N:\CRF3\02152002\J057408.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30  
L:851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
L:868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32  
L:886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34  
L:920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36  
L:955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38  
L:990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:1008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40  
L:1026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41  
L:1372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68  
L:1375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68  
L:1413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69  
L:1416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69  
L:1425 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:69